DYSON COLLEGE OF ARTS AND SCIENCES

THIRTY-SIXTH

ANNUAL MEETING

OF

THE SOCIETY OF FELLOWS

SATURDAY, MARCH 4TH, 2017

PACE UNIVERSITY

ONE PACE PLAZA

NEW YORK, NY
THE SOCIETY OF FELLOWS
DYSON COLLEGE OF ARTS AND SCIENCES
PACE UNIVERSITY

THIRTY-SIXTH ANNUAL MEETING
SATURDAY, MARCH 4TH, 2017
ONE PACE PLAZA

10:00 a.m.  Check-in and Breakfast — Bianco Room

10:45 a.m.  Annual Meeting Welcome — Bianco Room

11:00-12:40 p.m.  Plenary Session — Bianco Room

12:45-2:00 p.m.  Luncheon and Poster Session — Student Union and Reading Room
(adjacent to Student Union)

2:15-3:15 p.m.  First Concurrent Afternoon Panel Sessions 1 through 9

3:30-4:30 p.m.  Second Concurrent Afternoon Panel Sessions 10 through 18

Panel Sessions are located in classrooms on the 3rd Floor East Wing and
the Bianco Room of One Pace Plaza

4:45-5:30 p.m.  Reception and Awards Ceremony — Student Union

The Society of Fellows Executive Board wishes to thank and acknowledge all
Faculty Sponsors and Moderators for their support of
The Society of Fellows of Dyson College of Arts and Sciences
10:00 a.m. **Check-in and Breakfast**—Bianco Room

10:45 a.m. **Annual Meeting Welcome**—Bianco Room

Dr. Maria T. Iacullo-Bird  
Assistant Dean, Dyson College of Arts and Sciences

Dr. Nira Herrmann  
Dean, Dyson College of Arts and Sciences

11:00-12:40 p.m. **Plenary Session**—Bianco Room

*A Study of Gentrification and Residential Rents in Bushwick and Williamsburg, Brooklyn*  
George-Ann Ryan  
Faculty Sponsor: Dr. Anne J. Bynoe

*Preparation and Applications of Silicone Composites as an Artistic Medium*  
Taylor Longenberger  
Faculty Sponsor: Dr. Joseph W. Krumpfer

"I Now Pronounce You Husband and Wife" …But Wait, We’re Gay! *Marriage as a Space for Same-Sex Couples*  
William De Feis  
Faculty Sponsor: Dr. Jason Whitesel

*General Tso's Journey to USA: The Importance of Authenticity in Food Choice*  
Katie Li  
Faculty Sponsor: Dr. Amy C. Foerster
12:45-2:00 p.m.  **Luncheon**—Student Union
Presiding, Dr. Nira Herrmann
Dean, Dyson College of Arts and Sciences

**Poster Session**—Student Union and Reading Room

*Blue Tape Society: The Importance of Pop-Ups*
Annabelle Krupcheck; Faculty Sponsor: Prof. Jillian M. McDonald

*Functional Characterization of the Human β2b I354T Mutation Associated with Epilepsy*
Salma Allam; Faculty Sponsor: Dr. Zafir K. Buraei

*Amyloid Forming Sequences in Trichomonas Vaginalis-Phase II*
Ami Asakawa; Faculty Sponsor: Dr. Cho Chan

*Chemical and Structural Analysis of Metronidazole and its Derivatives*
Solmaz Azimi; Faculty Sponsor: Dr. Rita K. Upmacis

*Examining the Mechanical and Anti-Bacterial Properties of Crosslinked Silicone Materials and Coatings*
William Bender; Faculty Sponsor: Dr. Joseph W. Krumpfer

*Greening the Inorganic Chemistry Laboratory*
Tyler Brescia; Faculty Sponsor: Dr. Rita K. Upmacis

*Releasing the Pursuit of Bouncing and Behaving Hair: Natural Hair as an Afrocentric Feminist Aesthetic for Beauty*
Alyssa Chambers; Faculty Sponsor: Dr. Deborah M. Poe

*Evaluation on the Interaction of Nanomaterials with Enzymes (Catalase and Lipase) Using Optical Spectroscopy*
Kaitlyn Chhe; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Spectroscopic Properties of Hydroxycinnamic Acids at Different Ph*
Josephine Farshi; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*A New Approach to Drug Discovery for the Treatment of Cryptosporidiosis*
Mohini Gobin; Faculty Sponsor: Dr. Nigel R. Yarlett

*A Molecular Mechanism for Alzheimer's Disease: The Effects of WT and Mutants Presenilin M146V and D275A on Trpc5 Channel Function*
Paris Hanson; Faculty Sponsor: Dr. Zafir K. Buraei
Poster Session (continue) — Student Union and Reading Room

Analysis of Sulfur Drugs Using Raman Spectroscopy and Density Functional Theory (DFT) Calculations
Alexis Javornik; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Discrimination of Fluoroquinolone Antibiotics Using Raman Spectroscopy
Ashley Kuptsow; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

RNA Interference (RNAi) Screen to Identify New Genes That Control Fertilization and Embryo Development
Emily Lopes; Faculty Sponsor: Dr. Matthew R. Marcello

Surface Modification of Silicone Materials via Displacement Reactions with Organosilicon Monomers
Dymin Morillo; Faculty Sponsor: Dr. Joseph W. Krumpfer

Raman Spectroscopy and Density Functional Theory Calculations of Phenolic Acid Derivatives
Samantha Pace; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Optimizing the Conditions for the HPLC Separation of Illicit Drugs/Amphetamines
Lauren Reilly; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Hydrophobization of Inorganic Oxide Surfaces via Siloxane Equilibration
Kaleigh Ryan; Faculty Sponsor: Dr. Joseph W. Krumpfer

Polymerization within Giant Unilamellar Vesicles Prepared by Gentle Hydration of Hybrid Agarose/Lipid Films
Emanuel Smith; Faculty Sponsor: Dr. Sergey V. Kazakov

Binding of Tetracyclines with Nanoceramics
Hunter Tonn; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Shea Butter Infused with Natural Oils to Generate a Novel and Natural Antimicrobial Moisturizer
Amanda Tremblay; Faculty Sponsor: Dr. JaimeLee I. Rizzo

Infusion of Native Oils to Synthesize Novel Antimicrobial Surfaces
Kenya Velez; Faculty Sponsor: Dr. JaimeLee I. Rizzo

Phenol Content and Antioxidant Activities of Different Commercial Tea Samples
Amanda Villaggi; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

Use of Different Methods to Extract Active Compounds from Bee Propolis
Lyric Wyan; Faculty Sponsor: Dr. Elmer-Rico E. Mojica
First Concurrent Afternoon Panel Sessions — 2:15-3:15 p.m.

**Session 1**

Analytical Chemistry I: Chromatography and Spectroscopy — Room E316

2:15-3:15 p.m.

**Moderator: Dr. Elmer-Rico E. Mojica**

*Analysis of NSAIDs (Non-Steroidal Anti-Inflammation Drugs) in Environmental Water Samples*

Elijah Jones; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Human Serum Albumin Binding Interaction with Nanomaterials*

Tyler Nolan; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

*Evaluating the Water Quality from Selected Billion Oysters Project (BOP) Restoration Sites*

Jahaira Zapata; Faculty Sponsor: Dr. Elmer-Rico E. Mojica

**Session 2**

Literary Studies I: Urban Perspectives — Room E317

2:15-3:15 p.m.

**Moderators: Dr. Michael H. Finewood and Dr. Robert J. Mundy**

*Three Walks/One Talk: Writing the City, University, and Self*

Audrey Arcari

Maria Castiglia

Faculty Sponsors: Dr. Michael H. Finewood and Dr. Robert J. Mundy

*Constructing Nature in New York City: Assessing Green Gentrification in Chelsea through the Pier 55 Project*

Leanna Molnar; Faculty Sponsors: Dr. Michael H. Finewood and Dr. Robert J. Mundy

**Session 3**

Historical Perspectives on Marriage and Immigration — Room E318

2:15-3:15 p.m.

**Moderators: Dr. Joseph Tse-Hei Lee and Dr. Barbara Blumberg**

*Shifting Traditional Paradigms in Contemporary China*

Ilona Kereki; Faculty Sponsor: Dr. Joseph Tse-Hei Lee

*Antoun-Antoun: First Wave Arab Immigration*

Katharine Anthony; Faculty Sponsor: Dr. Barbara Blumberg
Session 4  The Economics of Health Care Policy — Room E323
2:15-3:15 p.m.  
Moderator: Dr. Anna Shostya

The Relationship Between Heroin Use and Prescription Opiate Use in the United States
Candice Cordova; Faculty Sponsor: Dr. Gregory Colman

The Economics of Cancer Care and Mortality Rates
Latrelle Gray Jones-Booker; Faculty Sponsor; Prof. Sam S. Baruch

Food Deserts and Obesity, Diabetes, and Life Expectancy
Elizabeth Lipov; Faculty Sponsor: Dr. Anna Shostya

Session 5  International Economics — Room E324
2:15-3:15 p.m.  
Moderators: Dr. Joseph C. Morreale and Prof. Mark L. Weinstock

The Effect of the Marginal Corporate Tax Rate on Domestic Investment in OECD Countries
Charles Valvo; Faculty Sponsor: Dr. Joseph C. Morreale

Causes and Policy Implications of Dollarization in Cambodia
Kilian Tep; Faculty Sponsors: Prof. Isabelle M. Delalex and Prof. Sam S. Baruch

Lasting Effects From Colonization
De’Ja Cox; Faculty Sponsor: Prof. Mark L. Weinstock

Session 6  The Economics of Health, Wealth & Expectations — Room E325
2:15-3:15 p.m.  
Moderator: Dr. Gregory Colman

Does Gentrification Affect Birth Rates?
Amanda Sorrentino; Faculty Sponsors: Prof. Kier F. Hanratty and Dr. Anna Shostya

The Impact of Age and Motherhood on Women’s Wages
Ava Kratzinger; Faculty Sponsor: Dr. Gregory Colman

Hysteresis and its Impacts on Cognitive Ability and Depression
Melissa Navas; Faculty Sponsor: Dr. Gregory Colman

Do Demographics Affect the Accuracy of Consumer Inflation Expectations Over Time
Klejdja Qosja; Faculty Sponsor: Dr. Gregory Colman
Session 7  
Public Policy and Social Enterprise — Room E326  
Moderators: Dr. Gina Scutelnicu and Dr. Rebecca Tekula

Participatory Budgeting and Government Accountability in New York City  
Ashley Kuenneke; Faculty Sponsor: Dr. Gina Scutelnicu

The Correlation between the National Average Wage and the Employment Growth of Clinical Laboratory Scientist  
Cathy Qi Tan; Faculty Sponsor: Dr. Gina Scutelnicu

Program-Related Investments in U.S. private non-operating foundations  
Eileen Lee Fung; Faculty Sponsor: Dr. Rebecca Tekula

Session 8  
Strategies for Global Peace and Reconciliation — Room E327  
Moderator: Dr. Emily E. Welty

Reintegration of Female Perpetrators  
Sydney Tisch; Faculty Sponsor: Dr. Emily E. Welty

The Impact of Launching a Gender-Focused Truth Commission on the Experiences of Indigenous Women During the Forced Sterilizations on 1960s and 1970s  
Yasmine Coccoli; Faculty Sponsor: Dr. Emily E. Welty

Truth and Reconciliation After the Greensboro Massacre  
Terrie Soule; Faculty Sponsor: Dr. Emily E. Welty

Session 9  
Anxiety: An Epidemic (Performance) — Bianco Room  
Moderator: Prof. Ion Cosmin Chivu

Holly Wright  
Ryan Beaghler  
Sam Casey  
Quinn Corcoran  
Erin Dilorio  
Thomas Pastor  
Faculty Sponsor: Prof. Ion Cosmin Chivu
Second Concurrent Afternoon Panel Sessions — 3:30-4:30 p.m.

**Session 10**
3:30-4:30 p.m.  
**Analytical Chemistry II: Drug Discovery and Drug Delivery**  
**Room E316**  
**Moderators: Dr. Sergey V. Kazakov and Dr. Irina G. Gazaryan**

- **Lipobeads: Effect of Lipid Bilayer Fluidity on Formation of Unilamellar Coating on the Microgels**  
  Sarah Rahni; Faculty Sponsor: Dr. Sergey V. Kazakov

- **Metals as Triggers of Antioxidant Genetic Program**  
  Linh Nguyen; Faculty Sponsor: Dr. Irina G. Gazaryan

- **Oxyquinolines Triggering Antihypoxic and Antioxidant Programs**  
  Olga Byesyedina; Faculty Sponsor: Dr. Irina G. Gazaryan

**Session 11**
3:30-4:30 p.m.  
**Literary Studies II: From Milton, to Gogol, and Morrison**  
**Room E317**  
**Moderators: Dr. Erica L. Johnson, Dr. Rebecca E. Martin, and Dr. Andriy Danylenko**

- **When the Priest Turns Atheist: Applying the Barthesian Paradigm to Paradise Lost**  
  John Corbett; Faculty Sponsors: Dr. Erica L. Johnson and Dr. Sid E. Ray

- **Analysis of Toni Morrison's Beloved: Sethe Claims her Motherhood by killing her Daughter**  
  Sania Azhar; Faculty Sponsor: Dr. Rebecca E. Martin

- **Was Taras Bulba Ever Russian?**  
  Yuliya Palianok; Faculty Sponsor: Dr. Andriy Danylenko

**Session 12**
3:30-4:30 p.m.  
**Film and Media Analysis**  
**Room E318**  
**Moderator: Dr. Bette H. Kirschstein**

- **The Exorcist: Monstrosity Based on the Foreign and the Familiar**  
  Hayden Dabbs; Faculty Sponsor: Dr. Catherine Zimmer

- **Same Fear, Different Devices: Media Moral Panics**  
  Alexa McKenna; Faculty Sponsor: Dr. Marcella T. Szablewicz
Session 13  
Sociological Analysis of Race, Gender, and Culture — Room E323  
Moderator: Dr. Judith Pajo

Race and Ethnicity through the Lens of Social Media  
Catherine Salazar; Faculty Sponsor: Dr. Judith Pajo

Gender Equality Amongst the Islamic Population  
Kaltrina Mulosmani; Faculty Sponsor: Dr. Judith Pajo

No Femmes: Masculinity in Manhattan  
Alphonse Gonzales; Faculty Sponsor: Dr. Judith Pajo

Fan Culture: The One Direction Connection  
Kristina Leibold; Faculty Sponsor: Dr. Judith Pajo

Session 14  
The Economics of Education — Room E324  
Moderators: Prof. Kier F. Hanratty and Dr. Gregory Colman

Easy Graders: The Effect of Adjunct Faculty on Grade Inflation  
Lilay Hagos; Faculty Sponsor: Dr. Gregory Colman

Financial Literacy of College Students  
Cherrnal Lewis; Faculty Sponsor: Prof. Kier F. Hanratty

It’s More Than Just an Education: Measuring “Sheepskin Effects”  
Kelly Lester; Faculty Sponsor: Prof. Mark L. Weinstock

The Effect of Sexual Assault on Cumulative GPA  
Melissa Bowley; Faculty Sponsor: Dr. Gregory Colman

Session 15  
The Economics of Markets — Room E325  
Moderators: Prof. Mark L. Weinstock and Prof. Sam S. Baruch

What Factors Influence Concert Industry Success?  
Marcela Pertusi; Faculty Sponsor: Prof. Sam S. Baruch

The Effect of Google Trends Data on House Prices  
Haley Racicot; Faculty Sponsor: Dr. Gregory Colman

Low Income Rental Affordability and Labor Market Dynamics  
Jonathan O’Kane; Faculty Sponsors: Prof. Sam S. Baruch and Prof. Kier F. Hanratty

The Role of Renewable Energies in the Liberalized German Electricity Market  
Maximilian Rychwalski; Faculty Sponsor: Prof. Mark L. Weinstock
Session 16  
Studies in Criminal Justice — Room E326  
3:30-4:30 p.m.  
Moderator: Dr. Hasan T. Arslan  

The Knights of People: Human Trafficking Task Force (HTTF)  
Michael Palazzi; Faculty Sponsor: Dr. Hasan T. Arslan

Session 17  
Psychological Assessment of Trauma — Room E327  
3:30-4:30 p.m.  
Moderators: Dr. James B. McCarthy and Dr. Maren Westphal  

The Late Adolescent Trauma of Frida Kahlo and Her Identity as an Artist  
Jordan Falco; Faculty Sponsor: Dr. James B. McCarthy  

The role of mental health counselors in treating veterans with co-occurring posttraumatic stress disorder and substance use disorders in primary care  
Nilton Castro; Faculty Sponsor: Dr. Maren Westphal

Session 18  
The Could’ve-Beens (Performance) — Bianco Room  
3:30-4:30 p.m.  
Moderator: Prof. Adrienne S. Kapstein  
Joe Reault  
Brandon Adam  
Sam Casey  
Preston Fox  
Alexander Knezevic  
Andrew Newman  
Octavio Yattah  
Faculty Sponsor: Prof. Michael Goldfried

4:45-5:30 p.m.  
Reception and Awards Ceremony — Student Union  
Presiding, Dr. Maria T. Iacullo-Bird  
Assistant Dean, Dyson College of Arts and Sciences
ANNOUNCEMENTS AND UPCOMING EVENTS

The Dyson Society of Fellows Annual Initiation Ceremony will take place on the evening of Thursday, April 27th, 2017
Pace University, New York Campus

Transactions—Call for Papers
Full research papers/artistic projects submitted to the 2017 Annual Meeting will be considered for publication. It is highly recommended that students edit Annual Meeting papers with their faculty sponsors and resubmit. Please forward revised submissions or submit new entries by Friday, June 30th, 2017

Society of Fellows 2017 Annual Weekend Seminar
October 6-8, 2017, Warwick, New York

The Society of Fellows of Dyson College is the premier honors organization in the College. The Fellows foster dialogue and scholarship across the fields of the arts and sciences through enriching experiences for students with exceptional academic and artistic abilities. The Society of Fellows provides students with opportunities to develop intellectual interests and present their work to the university community. Membership in the Society of Fellows gives recognition to this advanced level of student participation and achievement. Faculty who participate in Society of Fellows events and sponsor students also receive recognition as Fellows.

Each fall the Fellows host the Weekend Seminar where students, faculty, and alumni engage in discussions on a chosen topic in a casual, off-campus setting, usually in upstate New York. At the Society of Fellows Annual Meeting, which is a one-day student conference held in early spring, students showcase their faculty-mentored scholarly research and artistic projects. The official journal of the Society, Transactions, publishes outstanding work written by Pace University students under the sponsorship of faculty members, many of whom are Fellows. New members are recognized at the Initiation Ceremony held at the end of the spring semester. More information about the Society of Fellows is available on the Pace University website.